



1600

RAW SEQUENCE LISTING

DATE: 06/28/2004

PATENT APPLICATION: US/09/730,329

TIME: 14:14:14

Input Set : A:\0152706460US.ST25.txt

Output Set: N:\CRF4\06282004\I730329.raw

3 <110> APPLICANT: John, Varghese
 4 Sinha, Sukanto
 5 Tung, Jay
 7 <120> TITLE OF INVENTION: Beta-Secretase Enzyme Compositions And Methods
 9 <130> FILE REFERENCE: 015270-006460US
 11 <140> CURRENT APPLICATION NUMBER: US 09/730,329
 12 <141> CURRENT FILING DATE: 2000-12-04
 14 <150> PRIOR APPLICATION NUMBER: US 60/168,854
 15 <151> PRIOR FILING DATE: 1999-12-02
 17 <160> NUMBER OF SEQ ID NOS: 68
 19 <170> SOFTWARE: PatentIn version 3.2
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 24
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
 28 Glu Thr Asp Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val
 29 1 5 10 15
 32 Glu Met Val Asp Asn Leu Arg Gly
 33 20
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 15
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Homo sapiens
 41 <400> SEQUENCE: 2
 43 Ile Ser Phe Ala Val Ser Ala Cys His Val His Asp Glu Phe Arg
 44 1 5 10 15
 47 <210> SEQ ID NO: 3
 48 <211> LENGTH: 11
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Homo sapiens
 52 <400> SEQUENCE: 3
 54 Glu Thr Asp Glu Glu Pro Glu Glu Pro Gly Arg
 55 1 5 10
 58 <210> SEQ ID NO: 4
 59 <211> LENGTH: 10
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Artificial
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: 293T cell-derived beta secretase N-terminal sequence
 66 <400> SEQUENCE: 4
 68 Thr Gln His Gly Ile Arg Leu Pro Leu Arg
 69 1 5 10



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72 <210> SEQ ID NO: 5
73 <211> LENGTH: 9
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial
77 <220> FEATURE:
78 <223> OTHER INFORMATION: 293T cell-derived beta secretase N-terminal sequence
80 <400> SEQUENCE: 5
82 Met Val Asp Asn Leu Arg Gly Lys Ser
83 1 5
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 10
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: CosA2 cell-derived beta secretase N-terminal sequence
94 <400> SEQUENCE: 6
96 Gly Ser Phe Val Glu Met Val Asp Asn Leu
97 1 5 10
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 419
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Recombinant beta secretase
108 <400> SEQUENCE: 7
109 ctgttgggct cgcggttgag gacaaactct tcgcggtcct tccagtactc ttggatcgga 60
111 aaccgcgcgc cctccgaacg gtactccgcc accgagggac ctgagcgagt ccgcatcgac 120
113 cggatcgga aacctctcga ctgttggggg gagtactccc tctcaaaagc gggcatgact 180
115 tctgcgctaa gattgtcagt ttccaaaaac gaggaggatt tgatattcac ctggcccgcg 240
117 gtgatgcctt tgagggtggc cgcgtccatc tggtcagaaa agacaatctt tttgttgtca 300
119 agcttgagggt gtggcaggct tgagatctgg ccatacactt gactgacaat gacatccact 360
121 ttgcctttct ctccacaggt gtccactccc aggtccaact gcaggtcgac tctagaccc 419
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 22
126 <212> TYPE: DNA
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 8
130 cggccggagg ggcagctttg tg 22
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 32
135 <212> TYPE: DNA
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 9
139 cccggccgga ggggcagctt tgtggagatg gt 32
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 11
144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 10

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149 Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
150 1          5          10
153 <210> SEQ ID NO: 11
154 <211> LENGTH: 26
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Primer 3468
161 <400> SEQUENCE: 11
162 cagcataggc cagccccagg atgcct
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 20
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Primer 3458
173 <400> SEQUENCE: 12
174 gaggggcagc tttgtggaga
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 24
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Pool No. 3407 nucleotide sequence
185 <400> SEQUENCE: 13
186 gagagacgar garccwgagg agcc
189 <210> SEQ ID NO: 14
190 <211> LENGTH: 24
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Pool No. 3408 nucleotide sequence
197 <400> SEQUENCE: 14
198 gagagacgar garccwgaag agcc
201 <210> SEQ ID NO: 15
202 <211> LENGTH: 24
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Pool No. 3409 nucleotide sequence
209 <400> SEQUENCE: 15
210 gagagacgar garccwgaag aacc
213 <210> SEQ ID NO: 16
214 <211> LENGTH: 24
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Pool No. 3410 nucleotide sequence
221 <400> SEQUENCE: 16

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222 gagagacgar garccwgagg aacc                                     24
225 <210> SEQ ID NO: 17
226 <211> LENGTH: 23
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Pool No. 3411 nucleotide sequence
233 <400> SEQUENCE: 17
234 agagacgarg arccsgagga gcc                                     23
237 <210> SEQ ID NO: 18
238 <211> LENGTH: 23
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Pool No. 3412 nucleotide sequence
245 <400> SEQUENCE: 18
246 agagacgarg arccsgaaga gcc                                     23
249 <210> SEQ ID NO: 19
250 <211> LENGTH: 23
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Pool No. 3413 nucleotide sequence
257 <400> SEQUENCE: 19
258 agagacgarg arccsgaaga acc                                     23
261 <210> SEQ ID NO: 20
262 <211> LENGTH: 23
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Pool No. 3414 nucleotide sequence
269 <400> SEQUENCE: 20
270 agagacgarg arccsgagga acc                                     23
273 <210> SEQ ID NO: 21
274 <211> LENGTH: 23
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Pool No. 3415 nucleotide sequence
281 <400> SEQUENCE: 21
282 cgtcacagrt trtcaaccat ctc                                     23
285 <210> SEQ ID NO: 22
286 <211> LENGTH: 23
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Pool No. 3416 nucleotide sequence
293 <400> SEQUENCE: 22
294 cgtcacagrt trtctacat ctc                                     23

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297 <210> SEQ ID NO: 23
298 <211> LENGTH: 23
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Pool No. 3417 nucleotide sequence
305 <400> SEQUENCE: 23
306 cgtcacagrt trtccaccat ctc 23
309 <210> SEQ ID NO: 24
310 <211> LENGTH: 23
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Pool No. 3418 nucleotide sequence
317 <400> SEQUENCE: 24
318 cgtcacagrt trtcgaccat ctc 23
321 <210> SEQ ID NO: 25
322 <211> LENGTH: 23
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Pool No. 3419 nucleotide sequence
329 <400> SEQUENCE: 25
330 cgtcacagrt trtcaaccat ttc 23
333 <210> SEQ ID NO: 26
334 <211> LENGTH: 23
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Pool No. 3420 nucleotide sequence
341 <400> SEQUENCE: 26
342 cgtcacagrt trtctaccat ttc 23
345 <210> SEQ ID NO: 27
346 <211> LENGTH: 23
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Pool No. 3421 nucleotide sequence
353 <400> SEQUENCE: 27
354 cgtcacagrt trtccaccat ttc 23
357 <210> SEQ ID NO: 28
358 <211> LENGTH: 23
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial
362 <220> FEATURE:
363 <223> OTHER INFORMATION: Pool No. 3422 nucleotide sequence
365 <400> SEQUENCE: 28
366 cgtcacagrt trtcgaccat ttc 23
369 <210> SEQ ID NO: 29

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/730,329

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Input Set : A:\0152706460US.ST25.txt
Output Set: N:\CRF4\06282004\I730329.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; N Pos. 12
Seq#:33; N Pos. 12
Seq#:34; N Pos. 12
Seq#:35; N Pos. 12
Seq#:36; N Pos. 7
Seq#:37; N Pos. 7
Seq#:38; N Pos. 3,12
Seq#:39; N Pos. 3,12
Seq#:44; N Pos. 16
Seq#:45; N Pos. 16
Seq#:46; N Pos. 16
Seq#:47; N Pos. 16
Seq#:58; Xaa Pos. 10
Seq#:59; Xaa Pos. 1,2,3,4
Seq#:60; Xaa Pos. 1,3
Seq#:61; Xaa Pos. 1,2,3
Seq#:62; Xaa Pos. 1,3
Seq#:63; Xaa Pos. 1,3
Seq#:64; Xaa Pos. 1,3
Seq#:65; Xaa Pos. 1,4
Seq#:66; Xaa Pos. 1,3
Seq#:67; Xaa Pos. 1,3,4
Seq#:68; Xaa Pos. 1,4

Invalid <213> Response:

**Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.**

Seq#:4,5,6,7,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
Seq#:33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56
Seq#:57,58,59,60,61,62,63,64,65,66,67,68

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/730,329

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Input Set : A:\0152706460US.ST25.txt

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L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0